# IN THE UNITED STATES PATENT AND TRADEMARK OFFICETECH CENTER 1600/25

Applicant: Van Rooijen et al.

Serial No.: 10/032,201

Filed: December 19, 2001

For: METHODS FOR THE PRODUCTION OF MULTIMERIC PROTEIN COMPLEXES,

AND RELATED COMPOSITIONS

Art Unit:

1638

Examiner: Unassigned

TRANSMITTAL LETTER

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Transmitted herewith is an Information Disclosure Statement, Forms PTO-1449 (14 pages), and cited references for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

(X) The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted, HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Robert T. Ramos

Registration No. 37,915

Dated: October 7, 2002
Attorney Docket 38814-351B
Address all correspondence to:
Stephanie L. Seidman
HELLER EHRMAN WHITE & McAULIFFE LLP
4350 La Jolla Village Drive, 7th Floor
San Diego, CA 92122-1246
Telephone: (858) 450-8400

Facsimile: (858) 587-5360 E-mail: sseidman@HEWM.com

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICETECH CENTER 1600/25

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Examiner: Unassigned

# INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the Merits for the above-captioned application, a fee for filing this statement should not be due. If, however, it is determined that a fee is due, any fees that may be due in connection with filing this paper may be charged to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Forms PTO-1449 (14 pages) and copies of the cited documents are provided herewith in connection with the above-captioned application.

The documents listed on the Forms PTO-1449 and supplied herewith are in the English language with the exception of items BM, BN and BO. Items BM, BN and BO,

(Japanese Patent Nos. JP 1129785, 2000103743 and 9012471 respectively), which are in the Japanese language, are provided with English language Derwent

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U.S.S.N. 10/032,201 van Rooijen, *et al.* Information Disclosur Statement

abstracts (items DG, DH and DI respectively) describing the subject matter. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following International applications, which are commonly owned and/or have one or more inventors in common.

Int'l Appln. No. PCT/US01/5024

Filing Date 12/19/01

Docket No. 351PC

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and make them of record in the file history of the above-captioned application.

\* \* \*

Respectfully submitted, HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Robert T. Ramos

Registration No. 37,915

Dated: October 7, 2002
Attorney Docket 38814-351B
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HELLER EHRMAN WHITE & McAULIFFE LLP
4350 La Jolla Village Drive, 7th Floor
San Diego, CA 92122-1246

Telephone: (858) 450-8400 Facsimile: (858) 587-5360 E-mail: sseidman@HEWM.com

| FORM PTO-1449 (Modified)   |  |
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| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURES STATEMENT |  |

| ATTY. DOCKET NO.<br>38814-351B         | SERIAL NO.<br>10/032,201 | <del></del>            |
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| APPLICANT<br>van Rooijen <i>et al.</i> |                          | H CEN                  |
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| EXAMINER<br>INITIAL |   |   | D | OCUN | IENT N | NUMB | ER |   | DATE     | NAME                          | CLASS | SUB<br>CLASS | FILING<br>DATE |
|---------------------|---|---|---|------|--------|------|----|---|----------|-------------------------------|-------|--------------|----------------|
|                     | Α | 0 | 0 | 3    | 7      | 3    | 0  | 3 | 03/28/02 | Deckers et al.                | 424   | 401          | 07/05/01       |
|                     | В | 0 | 0 | 7    | 1      | 8    | 4  | 6 | 06/13/02 | Deckers et al.                | 424   | 184.1        | 06/15/01       |
|                     | С | 0 | 0 | 7    | 1      | 8    | 5  | 2 | 06/13/02 | Deckers et al.                | 424   | 401          | 10/24/01       |
|                     | D | 0 | 0 | 8    | 8      | 0    | 2  | 5 | 07/04/02 | Moloney et al.                | 800   | 288          | 07/03/01       |
|                     | E | 0 | 1 | 0    | 0      | 0    | 7  | 3 | 07/25/02 | Moleney et al.                | 800   | 278          | 07/25/02       |
|                     | F | 0 | 1 | 0    | 6      | 3    | 3  | 7 | 08/08/02 | Deckers et al.                | 424   | 59           | 08/08/02       |
|                     | G | 0 | 1 | 1    | 4      | 8    | 2  | 0 | 08/22/02 | Deckers et al.                | 424   | 401          | 08/22/02       |
|                     | Н | 3 | 5 | 3    | 6      | 8    | 0  | 9 | 10/27/70 | Applezweig                    | 424   | 28           | 02/17/69       |
|                     | 1 | 3 | 5 | 9    | 8      | 1    | 2  | 3 | 08/10/71 | Zaffaroni                     | 128   | 268          | 04/01/69       |
|                     | J | 3 | 6 | 3    | 0      | 2    | 0  | 0 | 12/28/71 | Higuchi <i>et al.</i>         | 128   | 260          | 06/09/69       |
|                     | К | 3 | 8 | 4    | 5      | 7    | 7  | 0 | 11/05/74 | Theeuwes et al.               | 128   | 260          | 06/05/72       |
|                     | L | 3 | 9 | 1    | 6      | 8    | 9  | 9 | 11/04/75 | Theeuwes et al.               | 128   | 260          | 02/07/74       |
|                     | М | 3 | 9 | 7    | 1      | 8    | 5  | 6 | 07/27/76 | Daftary                       | 426   | 417          | 03/03/75       |
|                     | N | 4 | 0 | 0    | 8      | 7    | 1  | 9 | 02/22/77 | Theeuwes et al.               | 128   | 260          | 02/02/76       |
|                     | 0 | 4 | 5 | 2    | 2      | 8    | 1  | 1 | 06/11/85 | Eppstein <i>et al</i> .       | 514   | 2            | 07/08/82       |
|                     | Р | 4 | 6 | 8    | 7      | 6    | 1  | 0 | 08/18/87 | Vassilatos                    | 264   | 211.14       | 04/30/86       |
|                     | α | 4 | 7 | 6    | 9      | 0    | 2  | 7 | 09/6/88  | Baker <i>et al.</i>           | 424   | 493          | 02/24/87       |
|                     | R | 4 | 7 | 7    | 1      | 0    | 3  | 6 | 09/13/88 | Pigiet <i>et al.</i>          | 514   | 17           | 02/10/86       |
|                     | S | 4 | 9 | 3    | 5      | 2    | 3  | 1 | 06/19/90 | Pigiet                        | 424   | 71           | 01/04/88       |
|                     | Т | 4 | 9 | 4    | 0      | 8    | 3  | 8 | 07/10/90 | Schilperoort et al.           | 800   | 205          | 02/23/84       |
|                     | υ | 4 | 9 | 4    | 0      | 9    | 3  | 5 | 07/10/90 | Riley                         | 324   | 158F         | 08/28/89       |
|                     | ٧ | 4 | 9 | 5    | 4      | 6    | 1  | 8 | 09/04/90 | Fahnestock                    | 530   | 387          | 03/15/89       |
|                     | w | 4 | 9 | 7    | 3      | 4    | 7  | 5 | 11/27/90 | Schnetzinger <i>et</i><br>al. | 424   | 70           | 10/07/88       |
|                     | Х | 5 | 0 | 5    | 9      | 5    | 9  | 5 | 10/22/91 | Le Grazie                     | 424   | 468          | 03/20/90       |

**EXAMINER** 

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#### LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

FORM PTO-1449 (Modified)

#### **U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |    | DOCUMENT NUMBER |   |   |   |   |   |   | DATE     | NAME                  | CLASS | SUB<br>CLASS | FILING<br>DATE |
|---------------------|----|-----------------|---|---|---|---|---|---|----------|-----------------------|-------|--------------|----------------|
|                     | Y  | 5               | 0 | 7 | 3 | 5 | 4 | 3 | 12/17/91 | Marshall et al.       | 514   | 21           | 07/21/88       |
|                     | z  | 5               | 1 | 2 | 0 | 5 | 4 | 8 | 06/09/92 | McClelland et al.     | 424   | 473          | 11/07/89       |
|                     | AA | 5               | 1 | 5 | 1 | 3 | 5 | 0 | 09/29/92 | Colbert et al.        | 435   | 69.1         | 10/27/82       |
|                     | АВ | 5               | 1 | 8 | 8 | 6 | 4 | 2 | 02/23/93 | Shah <i>et al.</i>    | 47    | 58           | 02/12/90       |
|                     | AC | 5               | 2 | 6 | 8 | 4 | 6 | 3 | 12/07/93 | Jefferson             | 536   | 23.7         | 12/08/89       |
|                     | AD | 5               | 3 | 5 | 4 | 5 | 6 | 6 | 10/11/94 | Addesso et al.        | 426   | 9            | 06/02/93       |
|                     | AE | 5               | 4 | 5 | 1 | 5 | 1 | 3 | 09/19/95 | Maliga <i>et al.</i>  | 435   | 172.3        | 08/25/93       |
|                     | AF | 5               | 5 | 0 | 4 | 2 | 0 | 0 | 04/02/96 | Hall et al.           | 536   | 24.1         | 02/18/94       |
|                     | AG | 5               | 5 | 4 | 5 | 8 | 1 | 7 | 08/13/96 | McBride et al.        | 800   | 205          | 03/11/94       |
|                     | АН | 5               | 5 | 4 | 5 | 8 | 1 | 8 | 08/13/96 | McBride et al.        | 800   | 205          | 03/14/94       |
|                     | Al | 5               | 5 | 7 | 6 | 1 | 9 | 8 | 11/19/96 | McBride et al.        | 435   | 91.3         | 12/14/93       |
|                     | AJ | 5               | 5 | 9 | 1 | 7 | 6 | 7 | 01/07/97 | Mohr et al.           | 514   | 413          | 06/06/95       |
|                     | AK | 5               | 5 | 9 | 9 | 6 | 7 | 0 | 02/04/97 | Jefferson             | 435   | 6            | 02/21/95       |
|                     | AL | 5               | 6 | 1 | 4 | 3 | 9 | 5 | 03/25/97 | Ryals et al.          | 435   | 172.3        | 01/13/94       |
|                     | АМ | 5               | 6 | 3 | 9 | 4 | 7 | 6 | 06/17/97 | Oshlack <i>et al.</i> | 424   | 468          | 06/02/95       |
|                     | AN | 5               | 6 | 5 | 0 | 5 | 5 | 4 | 07/22/97 | Moloney               | 800   | 205          | 12/30/94       |
|                     | AO | 5               | 6 | 7 | 4 | 5 | 3 | 3 | 10/07/97 | Santus et al.         | 424   | 493          | 05/26/95       |
|                     | AP | 5               | 7 | 3 | 3 | 5 | 6 | 6 | 03/31/98 | Lewis                 | 424   | 426          | 10/30/95       |
|                     | ΑQ | 5               | 7 | 9 | 2 | 5 | 0 | 6 | 08/11/98 | Buchanan et al.       | 426   | 656          | 10/21/94       |
|                     | AR | 5               | 7 | 9 | 2 | 9 | 2 | 2 | 08/11/98 | Moloney               | 800   | 205          | 08/11/98       |
|                     | AS | 5               | 8 | 5 | 6 | 4 | 5 | 2 | 01/05/99 | Moloney et al.        | 530   | 412          | 12/16/96       |
|                     | AT | 5               | 9 | 4 | 8 | 6 | 8 | 2 | 09/07/99 | Moloney               | 435   | 483          | 04/25/97       |
|                     | AU | 5               | 9 | 6 | 5 | 3 | 9 | 0 | 10/12/99 | Björck <i>et al.</i>  | 435   | 69.1         | 02/11/97       |
|                     | AV | 6               | 1 | 4 | 6 | 6 | 4 | 5 | 11/14/00 | Deckers et al.        | 424   | 401          | 05/27/98       |
| :                   | AW | 6               | 1 | 8 | 3 | 7 | 6 | 2 | 02/06/01 | Deckers et al.        | 424   | 401          | 11/24/99       |

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# LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

| ATTY. DOCKET NO.<br>38814-351B          | SERIAL NO.<br>10/032,201 | TEQ.     |       |
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| APPLICANT<br>van Rooijen <i>et al</i> . |                          | CENT     | 0CT ( |
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| 1  | DOCUMENT NUMBER |     |       |         |           |             |               | DATE            | NAME                     | CLASS                                   | SUB<br>CLASS                                | FILING<br>DATE   |
|----|-----------------|-----|-------|---------|-----------|-------------|---------------|-----------------|--------------------------|---|---|--|
| AX | 6               | 2   | 1     | 0       | 7         | 4           | 2             | 04/03/01        | Deckers et al.           | 426                                     | 630   | 04/05/00   |
| AY | 6               | 2   | 8     | 8       | 3         | 0           | 4             | 09/11/01        | Moloney et al.           | 800                                     | 288   | 12/18/98   |
| ΑZ | 6               | 3   | 7     | 2       | 2         | 3           | 4             | 04/16/02        | Deckers et al.           | 424                                     | 401   | 05/24/00   |
| A  | Y               | Υ 6 | Y 6 2 | Y 6 2 8 | Y 6 2 8 8 | Y 6 2 8 8 3 | Y 6 2 8 8 3 0 | Y 6 2 8 8 3 0 4 | Y 6 2 8 8 3 0 4 09/11/01 | Y 6 2 8 8 3 0 4 09/11/01 Moloney et al. | Y 6 2 8 8 3 0 4 09/11/01 Moloney et al. 800 | X 6 2 1 0 7 4 2 04/03/01 Deckers et al. 426 630<br>Y 6 2 8 8 3 0 4 09/11/01 Moloney et al. 800 288 |

#### FOREIGN PATENT DOCUMENTS

|        | DOCUMENT NUMBER |    |    |   |   |   |   | DATE     | COUNTRY | CLASS | SUB<br>CLASS | Trans<br>Yes | slation<br>No |
|--------|-----------------|----|----|---|---|---|---|----------|---------|-------|--------------|--------------|---------------|
| ВА     | 0               | 0  | 3  | 6 | 1 | 2 | 6 | 06/22/00 | PCT     |       |              |              | L             |
| BB     | 0               | 0  | 3  | 9 | 3 | 1 | 3 | 07/06/00 | PCT     |       |              |              |               |
| вс     | 0               | 0  | 5  | 8 | 3 | 5 | 2 | 10/05/00 | РСТ     |       |              |              |               |
| BD     | 0               | 0  | 5  | 8 | 4 | 5 | 3 | 10/05/00 | PCT     |       |              |              |               |
| BE     | 0               | 1  | 1  | 4 | 5 | 7 | 1 | 03/01/01 | PCT     |       |              |              |               |
| BF     | 0               | 1  | 1  | 6 | 3 | 4 | 0 | 03/08/01 | PCT     |       |              |              |               |
| BG     | 0               | 1  | 9  | 5 | 9 | 3 | 4 | 12/20/01 | PCT     |       |              |              |               |
| вн     | 0               | 2  | 5  | 0 | 2 | 8 | 9 | 06/27/02 | PCT     |       |              |              |               |
| ВІ     | 0               | 2  | 9  | 2 | 4 | 3 | 5 | 11/23/88 | EP (A1) |       |              |              |               |
| <br>BJ | 0               | 2  | 9  | 2 | 4 | 3 | 5 | 11/23/88 | EP (B1) |       |              |              |               |
| ВК     | 0               | 3  | 4  | 2 | 9 | 2 | 6 | 11/23/89 | EP      |       |              |              |               |
| <br>BL | 0               | 3  | 9  | 2 | 2 | 2 | 5 | 10/17/90 | EP      |       |              |              |               |
| BM     | 1               | 1  | 2  | 9 | 7 | 8 | 5 | 05/23/95 | JP      |       |              |              | X*            |
| BN     | 20              | 00 | 10 | 3 | 7 | 4 | 3 | 04/11/02 | JP      |       |              |              | х*            |
| во     | 9               | 0  | 1  | 2 | 4 | 7 | 1 | 01/14/97 | JP      |       |              |              | х*            |
| BP     | 9               | 1  | 0  | 4 | 3 | 2 | 0 | 04/04/91 | PCT     |       |              |              |               |
| BQ     | 9               | 3  | 0  | 7 | 2 | 7 | 8 | 04/15/93 | РСТ     |       |              |              |               |
| <br>BR | 9               | 5  | 1  | 6 | 7 | 8 | 3 | 06/22/95 | PCT     | ]     |              |              |               |
| BS     | 9               | 7  | 0  | 2 | 3 | 5 | 2 | 01/23/97 | PCT     |       |              |              |               |

#### **EXAMINER**

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| FORM PTO-1449 (Modified)  | ATTY. DOCKET NO. SERIAL NO. 10/032,201 |               |  |  |
|---|--|---------------|--|--|
| LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE | APPLICANT<br>van Rooijen <i>et al.</i> |               |  |  |
| STATEMENT   | FILING DATE December 19, 2001          | GROUP<br>1638 |  |  |

#### FOREIGN PATENT DOCUMENTS

|    | DOCUMENT NUMBER |   |   |   |   |   |   | DATE     | COUNTRY | CLASS | SUB<br>CLASS | Trans<br>Yes | slation<br>No |
|----|-----------------|---|---|---|---|---|---|----------|---------|-------|--------------|--------------|---------------|
| ВТ | 9               | 7 | 0 | 6 | 2 | 5 | 0 | 02/20/97 | PCT     |       |              |              |               |
| BU | 9               | 7 | 3 | 2 | 9 | 7 | 7 | 09/12/97 | PCT     |       |              |              |               |
| BV | 9               | 8 | 1 | 1 | 2 | 3 | 5 | 03/19/98 | PCT     |       |              |              |               |
| BW | 9               | 8 | 4 | 9 | 3 | 2 | 6 | 11/05/98 | PCT     |       |              |              |               |
| вх | 9               | 9 | 2 | 0 | 1 | 2 | 2 | 04/29/99 | PCT     |       |              |              |               |

<sup>\*</sup> An English Language Abstract is provided.

# OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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|------|--|
| BY   | "RPAS Expression Module", Code Number 27-9401-01, Amersham Biosciences-Products-RPAS Expression Module, http://www1.amershambiosciences.com/aptrix/upp01077.nsf/Content/Products?OpenDocument&ModuleId8/9/2002 |
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| CA   | Abenes et al., "Transient expression and oil body targeting of an Arabidopsis oleosin-GUS reporter fusion protein in a range of oilseed embryos", Plant Cell Reports, 17:1-7 (1997)                            |
| СВ   | Altschul et al., "Basic Local Alignment Search Tool", J. Mol. Biol., 215:403-410 (1990)  |
| сс   | An, G., [17]"Binary Ti Vectors for Plant Transformation and Promoter Analysis", <i>Methods in Enzymology</i> , 153:292-305 (1987)  |
| CD   | Aota et al., "Protection Against Reperfusion-Induced Arrhythmias by Human Thioredoxin"<br>Journal of Cardiovascular Pharmacology, 27(5):727-732 (1996)   |
| CE   | Baker and Dyer, "Genetic Transformation of <i>Carthamus tinctorius</i> L. (Safflower)", <i>Biotechnology in Agriculture and Forestry</i> , <u>38</u> :201-210 (1996)   |
| CF   | Beaudoin et al., "In vivo targeting of a sunflower oil body protein in yeast secretory (sec) mutants", The Plant Journal, 23(2):159-170 (2000)   |
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| СН   | Bechtold and Pelletier, "In Planta Agrobacterium-Mediated Transformation of Adult Arabidopsis thaliana Plants by Vacuum Infiltration", Methods in Molecular Biology, 82:259-266 (1998)                         |

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| STATEMENT   | FILING DATE<br>December 19, 2001       | GROUP<br>1638 |  |  |

|        | THEN ART (including Author, Title, Date, Fertinent Fages, Etc.)  |
|--------|--|
| CI     | Bevan <i>et al.</i> , "Structure and transcription of the nopaline synthase gene region of T-DNA", <i>Nucleic Acid Research</i> , <u>11(2)</u> :369-385 (1983)   |
| <br>CJ | Bevan, M., "Binary <i>Agrobacterium</i> vectors for plant transformation", <i>Nucleic Acids Research</i> , 12(22):8711-8721 (1984)   |
| СК     | Blackman and Ptashne, "Maximizing Gene Expression on a Plasmid Using Recombination in Vitro", <i>Cell</i> , <u>13</u> :65-71 (1978)  |
| CL     | Boothe <i>et al.</i> , "Molecular Farming in Plants: Oilseeds as Vehicles for the Production of Pharmaceutical Proteins", <i>Drug Development Research</i> , <u>42</u> :172-181 (1997)   |
| СМ     | Bower et al., "Two Members of the Thioredoxin-h Family Interact with the Kinase Domain of a Brassica S Locus Receptor Kinase", <i>The Plant Cell</i> , 8:1641-1650 (1996)  |
| <br>CN | Boynton <i>et al.</i> , "Chloroplast Transformation in <i>Chlamydomonas</i> with High Velocity Microprojectiles", <i>Science</i> , <u>240</u> :1534-1537 (1988)  |
| со     | Brasaemle, D., "Adipose differentiation-related protein is an ubiquitously expressed lipid storage droplet-associated protein", <i>Journal of Lipid Research</i> , 38:2249-2263 (1997)   |
| СР     | Buchanan <i>et al.</i> , "Thioredoxin: A Multifunctional Regulatory Protein with a Bright Future in Technology and Medicine", <i>Arch. Biochem Biohys.</i> , 314(2):257-260 (1994)   |
| ca     | Buchanan <i>et al.</i> , "Thioredoxin-linked mitigation of allergic responses to wheat", <i>Proc. Natl. Acad. Sci. USA</i> , <u>94</u> :5372-5377 (1997)   |
| CR     | Carrillo and Lipman, "The Multiple Sequence Alignment Problem in Biology", SIAM J. APPL. MATH., 48(5):1073-1082 (1988)   |
| cs     | Carugo and Argos, "NADP-Dependent Enzymes.I: Conserved Stereochemistry of Cofactor Binding", <i>PROTEINS: Structure, Function, and Genetics</i> , <u>28</u> :10-28 (1997)  |
| СТ     | Cater et al., "Aqueous Extraction-An Alternative Oilseed Milling Process", Journal of the American Oil Chemist's Society, 51:137-141 (1973)  |
| CU     | Chatterton <i>et al.</i> , "Immunoelectron microscopy of low density lipoproteins yields a ribbon and bow model for the conformation of apolipoprotein B on the lipoprotein surface", <i>Journal of Lipid Research</i> , <u>36</u> :2027-2037 (1995) |
| <br>CV | Chaudary <i>et al.</i> , "Transgenic <i>Brassica carinata</i> as a vehicle for the production of recombinant proteins in seeds", <i>Plant Cell Reports</i> , <u>17</u> :195-200 (1998)   |
| cw     | Chen <i>et al.</i> , "Cloning and Secondary Structure Analysis of Caleosin, A Unique Calcium-Binding Protein in Oil Bodies of Plant Seeds", <i>Plant Cell Physiol</i> 40(10):1079-1086 (1999)  |
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| STATEMENT   | FILING DATE<br>December 19, 2001    | GROUP<br>1638            |

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|   | DL | Frandsen <i>et al.</i> , "Oil bodies and their associated proteins, oleosin and caleosin", <i>Physiologia Plantarum</i> , <u>112</u> :301-307 (2001)   |  |
|   | DM | Fromm <i>et al.</i> , "Expression of genes transferred into monocot and dicot plant cells by electroporation", <i>Proc. Natl. Acad. Science USA</i> , <u>82</u> :5824-5828 (1985)  |  |
|   | DN | Galkin <i>et al.</i> , "Construction of a new leucine dehydrogenase with preferred specificity for NADP+ by site-directed mutagenesis of the strictly NAD+ -specific enzyme", <i>Protein Engineering</i> , 10(6):687-690 (1997)            |  |
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|   | DP | Giddings et al., "Transgenic plants as factories for biopharmaceuticals", <i>Nature Biotechnology</i> , <u>18</u> :1151-1155 (2000)  |  |
|   | DΩ | Goldman <i>et al.</i> , "Reduction of Phenoxyl Radicals by Thioredoxin Results in Selective Oxidation of its SH-Groups to Disulfides. An Antioxidant Function of Thioredoxin", <i>Biochemistry</i> , 34(14):4765-4772 (1995)               |  |
|   | DR | Goldschmidt-Clermont, M., "Transgenic expression of aminoglycoside adenine transferase in the chloroplast: a selectable marker for site-directed transformation of chlamydomonas", <i>Nucleic Acids Research</i> , 19(15):4083-4089 (1991) |  |
|   | DS | Gordon-Kamm, W., "Transformation of Maize Cells and Regeneration of Fertile Transgenic Plants", <i>The Plant Cell</i> , <u>2</u> :603-618 (1990)   |  |
|   | DT | Goto et al., "Iron fortification of rice seed by the soybean ferritin gene", Nature Biotechnology, 17:282-286 (1999)   |  |
|   | DU | Gribskov and Burgess, "Sigma factors from <i>E. coli, B. subtilis</i> , phange SPO1, and phange T4 are homologous proteins", <i>Nucleic Acid Research</i> , 14(16):6745-6763 (1986)  |  |
|   | DV | Guarneros <i>et al.</i> , "Posttranscriptional control of bacteriophage $\lambda$ <i>int</i> gene expression from a site distal to the gene", <i>Proc. Natl. Acad. Sci. USA</i> , <u>79</u> :238-242 (1982)                                |  |
|   | DW | Hajdukiewicz <i>et al.</i> , "The small, versatile <i>pPZP</i> family of <i>Agrobacterium</i> binary vectors for plant transformation", <i>Plant Molecular Biology</i> , <u>25</u> :989-994 (1994)   |  |
|   | DX | Harris et al., "Chloroplast Ribosomes and Protein Synthesis", Microbiological Reviews, 58(40):700-754 (1994)   |  |
|   | DY | Hatzopoulos <i>et al.</i> , "Interaction of Nuclear Factors with Upstream Sequences of a Lipid Body Membrane Protein Gene from Carrot", <i>The Plant Cell</i> , <u>2</u> :457-657 (1990)   |  |
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| ЕВ | Holmberg and Bülow, "Redesign of the coenzyme specificity in L-Lactate dehydrogenase from <i>Bacillus stearothermophilus</i> using site-directed mutagenesis and media engineering", <i>Protein Engineering</i> , 12(10):851-856 (1999) |
| EC | Höög <i>et al.</i> , "Nucleotide sequence of the thioredoxin gene from <i>Escherichia coli</i> ", <i>Bioscience Reports</i> , <u>4</u> :917-923 (1984)  |
| ED | Horton <i>et al.</i> , "Engineering hybrid genes without the use of restriction enzymes", <i>Gene</i> , <u>77</u> :61-68 (1989)   |
| EE | Hotta <i>et al.</i> , "Pancreatic β Cell-specific Expression of Thioredoxin, an Antioxidative and Antiapoptotic Protein, Prevents Autoimmune and Streptozotocin-induced Diabetes", <i>J. Exp. Med.</i> , 188(8):1445-1451 (1998)        |
| EF | Huang, A., "Oleosins and Oil Bodies in Seeds and other Organs", <i>Plant Physiol.</i> 110;1055-1061 (1996)  |
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| EH | Hurley, et al., "Determinants of Cofactor Specificity in Isocitrate Dehydrogenase: Structure of an Engineered NADP <sup>+</sup> → NAD <sup>+</sup> Specificity-Reversal Mutant", Biochemistry, 35:5670-5678 (1996)                      |
| EI | Huynh et al, "Constructing and Screening cDNA Libraries in Agt10 and Agt11," Chapter 2 in DNA cloning, Volume I, a practical approach Glover, D.M. (Ed.), IRL Press, 1985 pp. 49-78   |
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| EK | Jacquot, et al., "Arabidopsis thaliana NAPHP Thioredoxin Reductase, cDNA Characterization and Expression of the Recombinant Protein in Escherichia coli", J.Mol. Biol., 235:1357-1363 (1994)  |
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| EO | Kaeppler et al., "Silicon carbide fiber-mediated DNA delivery into plant cells", Plant Cells Reports, 9:415-418 (1990)   |
| EP | Katti <i>et al.</i> , "Crystal Structure of Thioredoxin from <i>Escherichia coli</i> at 1·6 A Resolution",<br><i>J. Mol. Bio.</i> , <u>212</u> :167-184 (1990)   |
| EQ | Kobrehel <i>et al.</i> , "Role of the NADP/Thioredoxin System in the Reduction of $\alpha$ -Amylase and Trypsin Inhibitor Proteins", <i>J. Bio. Chem.</i> , 266(24):16135-16140 (1991)   |
| ER | Kobrehel and Nimbona, "Thioredoxin-linked Reduction of Wheat Storage Proteins: II. Technological Consequences", Gluten Proteins: Association of Ceral Research, 5th International Workshop on Gluten Proteins, Detmold, Germany, pp.381-393 (1993) |
| ES | Kobrehel <i>et al.</i> , "Specific Reduction of Wheat Storage Proteins by Thioredoxin $h^1$ ", <i>Plant Physiol</i> , <u>99</u> :919-924 (1992)  |
| ET | Koehler and Ho, "Hormonal Regulation, Processing, and Secretion of Cysteine Proteinases in Barley Aleurone Layers", <i>The Plant Cell</i> , <u>2</u> :769-783 (1990)   |
| EU | Koltun, S., "Aflatoxin Inactivation of Undelinted Cottonseed by Ammoniation", <i>JAOCS</i> , 63(4):533-534 (1986)  |
| EV | Koop et al., "Integration of foreign sequences into the tobacco plastome via polyethylene glycol-mediated protoplast transformation", <i>Planta</i> , <u>199</u> :193-201 (1996)   |
| EW | LaVallie <i>et al.</i> , "A Thioredoxin Gene Fusion Expression System that Circumvents Inclusion Body Formation in the <i>E. coli</i> Cytoplasm", <i>Biotechnology</i> , <u>11</u> :187-193 (1993)   |
| EX | Leber et al., "Characterization of Lipid Particles of the Yeast, Saccharomyces cerevisiae", Yeast, 10:1421-1428 (1994)   |
| EY | Lee and Huang <i>et al.</i> , "Genomic Nucleotide Sequence of a <i>Brassica napus</i> 20-Kilodalton Oleosin Gene", <i>Plant Physiol.</i> , <u>96</u> :1395-1397 (1991)   |
| EZ | Lee et al., "Maize oleosin is correctly targeted to seed oil bodies in Brassica napus transformed with the maize oleosin gene", Proc. Natl. Acad. Sci. USA, 88:6181-6185 (1991)  |
| FA | Li et al., "Expression and Characterization of the N-terminal Domain of an Oleosin Protein from Sunflower", <i>The Journal of Biological Chemistry</i> , 268(23):17504-17512 (1993)  |
| FB | Liu et al., "Plant seed oil bodies as an immobilation matrix for a recombinant xylanase from the rumen fungus Neocallimastix patriciarum", Molecular Breeding, 3:463-470 (1997)  |

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| FD | Luthman amd Holmgren, "Rat Liver Thioredoxin Reductase: Purification and Characterization", <i>American Chemical Society</i> , 21;6628-6633 (1982)   |
| FE | Mackie <i>et al.</i> , "Perilpin is located on the surface layer of intracellular lipid droplets in adipocytes", <i>Journal of Lipid Research</i> , <u>36</u> :1211-1226 (1995)  |
| FF | MacNee and Rahman, "Oxidants and Antioxidants as Therapeutic Targets in Chronic Obstructive Pulmonary Disease", <i>Am J Respir Crit Care Med</i> , <u>160</u> :S58-S65 (1999)  |
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| FH | Marty and Meyer, "Nucleotide sequence of a cDNA encoding a tobacco thioredoxin",<br>Plant Molecular Biology, 17:143-147 (1991)   |
| Fi | Masuda <i>et al.</i> , "Efficient production of the C-terminal domain of secretory leukoprotease inhibitor as a thrombin-cleavable fusion protein in <i>Escherichia coli</i> ", <i>Protein Engineering</i> , 9(1):101-106 (1996) |
| FJ | McBride, et al., "Controlled expression of plastid transgenes in plants based on a nuclear DNA-encoded and plastid-targeted T7 RNA polymerase", <i>Proc. Natl. Acad. Sci. USA</i> , 91:7301-7305 (1994)                          |
| FK | McElroy et al., "Isolation of an Efficient Actin Promoter for Use in Rice Transformation", The Plant Cell, 2:163-171 (1990)  |
| FL | Moloney and Holbrook, "Subcellular Targeting and Purification of Recombinant Proteins in Plant Production Systems", <i>Biotechnology and Genetic Engineering Reviews</i> , 14:321-337 (1997)                                     |
| FM | Moloney and Van Rooijen, "Recombinant proteins <i>via</i> oleosin partitioning", <i>Inform</i> , <u>7(1)</u> :107-113 (1996)   |
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| G  | Shi and Bhattacharyya, "A novel plasma membrane-bound thioredoxin from soybean",<br>Plant Molecular Biology, 32:653-662 (1996)   |
| GI | Shinozaki <i>et al.</i> , "The complete nucleotide sequence of the tobacco chloroplast genome:its gene organization and expression", <i>The EMBO Journal</i> , <u>5(9)</u> :2043-2049 (1986)                             |
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#### **EXAMINER**

DATE CONSIDERED